

WHAT IS CLAIMED IS:

- 1 1. A computer implemented method for provisioning broadband service in a
2 Point-to-Point Protocol over Ethernet (PPPoE) network, comprising:
3 transmitting an authentication request from a modem to a single
4 configuration domain name over a PPPoE network ; and
5 receiving authorization from said configuration domain name.
- 1 2. The method of claim 1, further comprising, prior to said transmitting step, the
2 step of providing a modem that includes a configuration domain name associated
3 with a configuration Broadband Service Node (BSN).
- 1 3. The method of claim 1, further comprising, prior to said transmitting step, the
2 step of establishing a PPPoE session.
- 1 4. The method of claim 1, further comprising, prior to said transmitting step, the
2 steps of:
3 requesting only a single identifier from a user of a client computer;
4 receiving said identifier; and
5 storing said identifier.
- 1 5. The method of claim 4, wherein said transmitting step comprises transmitting
2 an authorization request containing said identifier and a generic password to said
3 single configuration domain name.
- 1 6. A method of claim 1, wherein said receiving step comprises acquiring at least
2 one temporary dynamic Internet Protocol (IP) address.
- 1 7. The method of claim 6, further comprising:
2 transmitting a configuration request to an Internet Service Provider
3 (ISP), where said configuration request is addressed from said dynamic IP
4 address;
5 receiving full configuration details from said ISP, where said full
6 configuration details include a static IP address, and where said full
7 configuration details are addressed to said dynamic IP address; and

8 automatically configuring said modem based on said full configuration
9 details.

1 8. A system for provisioning broadband service in a Point-to-Point Protocol Over
2 Ethernet (PPPoE) network, comprising:
3 a least one client computer;
4 a modem coupled to said client computer, said modem including a
5 memory comprising:
6 instructions for transmitting an authentication request
7 from a modem to a single configuration domain name over a
8 PPPoE network; and
9 instructions for receiving authorization from said
10 configuration domain name;
11 a single configuration Broadband Service Node (BSN) coupled to
12 said modem, where said single configuration domain name is associated with
13 said single configuration BSN; and
14 an authentication server coupled to said single configuration BSN.

1 9. The system of claim 8, further comprising:
2 a Digital Subscriber Line Access Multiplexor (DSLAM) coupled
3 between said modem and said single configuration BSN;
4 an Asynchronous Transfer Mode (ATM) network coupled between
5 said DSLAM and said single configuration BSN; and
6 a Broadband Remote Access Server (BRAS) coupled between said
7 ATM network and said single configuration BSN.

1 10. The system of claim 1, further comprising:
2 multiple Broadband Service Nodes (BSNs) coupled to said modem,
3 where each of said BSNs is associated with a different domain name; and
4 an authentication server coupled to each one of said multiple BSNs.

1 11. The system of claim 10, wherein said multiple BSNs are coupled to the
2 Internet.

1 12. The system of claim 8, wherein said memory further comprises a generic
2 password.

1 13. A computer program product for use in conjunction with a computer system
2 for provisioning broadband service in a Point-to-Point Protocol Over Ethernet
3 (PPPoE) network, the computer program product comprising a computer readable
4 storage and a computer program stored therein, the computer program comprising:
5 instructions for transmitting an authentication request from a
6 modem to a single configuration domain name over a PPPoE
7 network; and
8 instructions for receiving authorization from said configuration
9 domain name.